Comparisons of Job Characteristics

Focus Occupation: Aerospace Engineering and Operations Technicians (17-3021)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 60

Focus Occupation: Aerospace Engineering and Operations Technicians (17-3021)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Production and Processing	6.0	11.9	13.2	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Aerospace Engineering and Operations Technicians (17-3021)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	8.0	11.0	>>	Skill level is likely more than sufficient
Quality Control Analysis	5.9	7.9	11.1	>>	Skill level is likely more than sufficient
Troubleshooting	4.5	5.5	9.2	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Aerospace Engineering and Operations Technicians (17-3021)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Oral Comprehension	12.5	12.2	14.4	>	Current ability level is likely sufficient

Oral Expression	12.4	11.9	13.2	>	Current ability level is likely sufficient
Near Vision	11.1	10.5	11.2	0	Current ability level may be sufficient
Written Comprehension	11.0	10.1	13.3	>>	Current ability level is likely more than sufficient
Category Flexibility	9.0	9.6	10.5	0	Current ability level may be sufficient
Deductive Reasoning	10.6	9.4	12.5	>>	Current ability level is likely more than sufficient
Problem Sensitivity	11.1	9.2	13.6	>>	Current ability level is likely more than sufficient
Inductive Reasoning	10.2	9.0	12.2	>>	Current ability level is likely more than sufficient
Flexibility of Closure	7.8	8.5	9.6	>	Current ability level is likely sufficient
Auditory Attention	5.9	7.6	7.7	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Aerospace Engineering and Operations Technicians (17-3021)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Work Activities	Exclusivity of Activity
Communicate technical information	4
Conduct performance testing	66
Install/connect electrical equipment to power circuit	57
Maintain records, reports, or files	5
Operate industrial or nondestructive testing equipment	84
Operate precision test equipment	81
Prepare technical reports or related documentation	22
Read blueprints	10
Read technical drawings	7
Understand engineering data or reports	48
Understand technical operating, service or repair manuals	6
Use computers to enter, access or retrieve data	3
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use knowledge of metric system	39
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Aerospace Engineering and Operations Technicians (17-3021)
Associated Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Tools and Technologies	Exclusivity
Acceleration and vibration measuring instruments	56
Business function specific software	1
Computers	1
Content authoring and editing software	1
Electrical measuring and testing equipment	7
Indicating and recording instruments	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Metals and metallurgy and structural materials testing instruments	15
Non destructive examination equipment	13
Pressure measuring and control instruments	10
Special tooling fixtures	16
Spectroscopic equipment	10
Temperature and heat measuring instruments	6
Viewing and observing instruments and accessories	4

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.